

Title (en)  
Navigational guidance via computer-assisted fluoroscopic imaging

Title (de)  
Navigationsführung über computergestützte fluoroskopische Bildgebung

Title (fr)  
Guide de navigation par imagerie radioscopique assistée par ordinateur

Publication  
**EP 2356940 B1 20131016 (EN)**

Application  
**EP 10185773 A 20000321**

Previously filed application  
06021634 20000321 EP

Priority

- EP 06021634 A 20000321
- EP 00918160 A 20000321
- US 27497299 A 19990323

Abstract (en)

[origin: WO0056215A1] Digital x-ray images (124) taken before a surgical procedure by a fluoroscopic C-arm imagery (103) are displayed by a computer (121), and overlaid with graphical representations of instruments being used in the operating room. The graphical representations are updated in real-time to correspond to movement of the instruments (140) in the operating room. A number of different techniques are described that aid the physician in planning, and carrying out the surgical procedure.

[origin: WO0056215A1] Digital X-ray images taken before a surgical procedure by a fluoroscopic C arm imagery (100) are displayed by a computer (121), and overlaid with graphical representations of instruments being used in the operating room. The graphical representations are updated in real-time to correspond to movement of the instruments (140) in the operating room. A number of different techniques are described that aid the physician in planning, and carrying out the surgical procedure.

IPC 8 full level  
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CPC (source: EP US)

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Citation (examination)

- US 5880976 A 19990309 - DIGIOIA III ANTHONY M [US], et al
- US 5824085 A 19981020 - SAHAY ALIND [US], et al

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CN106255465A; EP3099245A4; US11998283B2; EP3865069A1; WO2015112940A1; US10307079B2; WO2018167246A1

Designated contracting state (EPC)  
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**WO 0056215 A1 20000928**; **WO 0056215 A8 20010614**; **WO 0056215 A9 20011115**; AU 3902400 A 20001009; DE 60032475 D1 20070201; DE 60032475 T2 20070927; EP 1178755 A1 20020213; EP 1178755 A4 20030730; EP 1178755 B1 20061220; EP 1757228 A1 20070228; EP 1757228 B1 20110608; EP 2356940 A1 20110817; EP 2356940 B1 20131016; EP 2356940 B8 20131204; US 2003073901 A1 20030417; US 2010041985 A1 20100218; US 2011268248 A1 20111103; US 6470207 B1 20021022; US 7606613 B2 20091020; US 7996064 B2 20110809

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